# Bootstrap 4 Get Started

## **What is Bootstrap?**

* Bootstrap is a free front-end framework for faster and easier web development
* Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
* Bootstrap also gives you the ability to easily create responsive designs

**What is Responsive Web Design?**  
  
Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.

### **Bootstrap 4 Example**

<div class="jumbotron text-center">  
  <h1>My First Bootstrap Page</h1>  
  <p>Resize this responsive page to see the effect!</p>  
</div>  
  
<div class="container">  
  <div class="row">  
    <div class="col-sm-4">  
      <h3>Column 1</h3>  
      <p>Lorem ipsum dolor..</p>  
    </div>  
    <div class="col-sm-4">  
      <h3>Column 2</h3>  
      <p>Lorem ipsum dolor..</p>  
    </div>  
    <div class="col-sm-4">  
      <h3>Column 3</h3>  
      <p>Lorem ipsum dolor..</p>  
    </div>  
  </div>  
</div>

## **Bootstrap 3 vs. Bootstrap 4**

Bootstrap 4 is the newest version of Bootstrap; with new components, faster stylesheet and more responsiveness.

Bootstrap 4 supports the latest, stable releases of all major browsers and platforms. However, Internet Explorer 9 and down is not supported.

**If you require IE8-9 support, use**[**Bootstrap 3.**](https://www.w3schools.com/bootstrap/default.asp) It is the most stable version of Bootstrap, and it is still supported by the team for critical bugfixes and documentation changes. However, no new features will be added to it.

**Droppped icon support**: Bootstrap 4 does not support BS3 Glyphicons. Use [Font-Awesome or other icon libraries instead](https://www.w3schools.com/icons/default.asp).

## **Why Use Bootstrap?**

Advantages of Bootstrap:

* **Easy to use:** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
* **Responsive features:** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
* **Mobile-first approach:** In Bootstrap, mobile-first styles are part of the core framework
* **Browser compatibility:** Bootstrap 4 is compatible with all modern browsers (Chrome, Firefox, Internet Explorer 10+, Edge, Safari, and Opera)

## **Where to Get Bootstrap 4?**

There are two ways to start using Bootstrap 4 on your own web site.

You can:

* Include Bootstrap 4 from a CDN
* Download Bootstrap 4 from getbootstrap.com

## **Bootstrap 4 CDN**

If you don't want to download and host Bootstrap 4 yourself, you can include it from a CDN (Content Delivery Network).

MaxCDN provides CDN support for Bootstrap's CSS and JavaScript. You must also include jQuery:

### **MaxCDN:**

<!-- Latest compiled and minified CSS -->  
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">  
  
<!-- jQuery library -->  
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>  
  
<!-- Popper JS -->  
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>  
  
<!-- Latest compiled JavaScript -->  
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

**One advantage of using the Bootstrap 4 CDN:**  
Many users already have downloaded Bootstrap 4 from MaxCDN when visiting another site. As a result, it will be loaded from cache when they visit your site, which leads to faster loading time. Also, most CDN's will make sure that once a user requests a file from it, it will be served from the server closest to them, which also leads to faster loading time.  
  
**jQuery and Popper?**  
Bootstrap 4 use jQuery and Popper.js for JavaScript components (like modals, tooltips, popovers etc). However, if you just use the CSS part of Bootstrap, you don't need them.

Show components that require jQuery »

## **Downloading Bootstrap 4**

If you want to download and host Bootstrap 4 yourself, go to <https://getbootstrap.com/>, and follow the instructions there.

## **Create First Web Page With Bootstrap 4**

**1. Add the HTML5 doctype**

Bootstrap 4 uses HTML elements and CSS properties that require the HTML5 doctype.

Always include the HTML5 doctype at the beginning of the page, along with the lang attribute and the correct character set:

<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset="utf-8">  
  </head>  
</html>

**2. Bootstrap 4 is mobile-first**

Bootstrap 4 is designed to be responsive to mobile devices. Mobile-first styles are part of the core framework.

To ensure proper rendering and touch zooming, add the following <meta> tag inside the <head> element:

<meta name="viewport" content="width=device-width, initial-scale=1">

The width=device-width part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).

The initial-scale=1 part sets the initial zoom level when the page is first loaded by the browser.

**3. Containers**

Bootstrap 4 also requires a containing element to wrap site contents.

There are two container classes to choose from:

1. The .container class provides a responsive **fixed width container**
2. The .container-fluid class provides a **full width container**, spanning the entire width of the viewport

.container

.container-fluid

## **Two Basic Bootstrap 4 Pages**

The following example shows the code for a basic Bootstrap 4 page (with a responsive fixed width container):

### **Container Example**

<!DOCTYPE html>  
<html lang="en">  
<head>  
  <title>Bootstrap 4 Example</title>  
  <meta charset="utf-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1">  
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">  
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>  
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>  
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>  
</head>  
<body>  
  
<div class="container">  
  <h1>My First Bootstrap Page</h1>  
  <p>This is some text.</p>  
</div>  
  
</body>  
</html>

The following example shows the code for a basic Bootstrap 4 page (with a full width container):

### **Container Fluid Example**

<!DOCTYPE html>  
<html lang="en">  
<head>  
  <title>Bootstrap 4 Example</title>  
  <meta charset="utf-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1">  
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">  
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>  
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>  
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>  
</head>  
<body>  
  
<div class="container-fluid">  
  <h1>My First Bootstrap Page</h1>  
  <p>This is some text.</p>  
</div>  
  
</body>  
</html>

# Bootstrap 4 Containers

## **Containers**

You learned from the previous chapter that Bootstrap requires a containing element to wrap site contents.

Containers are used to pad the content inside of them, and there are two container classes available:

1. The .container class provides a responsive **fixed width container**
2. The .container-fluid class provides a **full width container**, spanning the entire width of the viewport

.container

.container-fluid

## **Fixed Container**

Use the .container class to create a responsive, fixed-width container.

Note that its width (max-width) will change on different screen sizes:

|  | **Extra small <576px** | **Small ≥576px** | **Medium ≥768px** | **Large ≥992px** | **Extra large ≥1200px** |
| --- | --- | --- | --- | --- | --- |
| max-width | 100% | 540px | 720px | 960px | 1140px |

Open the example below and resize the browser window to see that the container width will change at different breakpoints:

### **Example**

<div class="container">  
  <h1>My First Bootstrap Page</h1>  
  <p>This is some text.</p>  
</div>

## **Fluid Container**

Use the .container-fluid class to create a full width container, that will always span the entire width of the screen (width is always 100%):

### **Example**

<div class="container-fluid">  
  <h1>My First Bootstrap Page</h1>  
  <p>This is some text.</p>  
</div>

## **Container Padding**

By default, containers have 15px left and right padding, with no top or bottom padding. Therefore, we often use **spacing utilities**, such as extra padding and margins to make them look even better. For example, .pt-3 means "add a top padding of 16px":

### **Example**

<div class="container pt-3"></div>

You will learn much more about spacing utilities, in our [BS4 Utilities Chapter](https://www.w3schools.com/bootstrap4/bootstrap_utilities.asp).

## **Container Border and Color**

Other utilities, such as borders and colors, are also often used together with containers:

### **Example**

# My First Bootstrap Page

This container has a border and some extra padding and margins.

# My First Bootstrap Page

This container has a dark background color and a white text, and some extra padding and margins.

# My First Bootstrap Page

This container has a blue background color and a white text, and some extra padding and margins.

<div class="container p-3 my-3 border"></div>  
  
<div class="container p-3 my-3 bg-dark text-white"></div>  
  
<div class="container p-3 my-3 bg-primary text-white"></div>

You will learn much more about colors and border utilities, in our [BS4 Colors Chapter](https://www.w3schools.com/bootstrap4/bootstrap_colors.asp) and [BS4 Utilities Chapter](https://www.w3schools.com/bootstrap4/bootstrap_utilities.asp).

## **Responsive Containers**

You can also use the .container-sm|md|lg|xl classes to create responsive containers.

The max-width of the container will change on different screen sizes/viewports:

| **Class** | **Extra small <576px** | **Small ≥576px** | **Medium ≥768px** | **Large ≥992px** | **Extra large ≥1200px** |
| --- | --- | --- | --- | --- | --- |
| .container-sm | 100% | 540px | 720px | 960px | 1140px |
| .container-md | 100% | 100% | 720px | 960px | 1140px |
| .container-lg | 100% | 100% | 100% | 960px | 1140px |
| .container-xl | 100% | 100% | 100% | 100% | 1140px |

### **Example**

<div class="container-sm">.container-sm</div>  
<div class="container-md">.container-md</div>  
<div class="container-lg">.container-lg</div>  
<div class="container-xl">.container-xl</div>

# Bootstrap 4 Grids

## **Bootstrap 4 Grid System**

Bootstrap's grid system is built with flexbox and allows up to 12 columns across the page.

If you do not want to use all 12 columns individually, you can group the columns together to create wider columns:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 |  | span 1 | span 1 | span 1 | span 1 | span 1 |
| span 4 | | | |  | span 4 | | | | span 4 | | | |
| span 4 | | | |  | span 8 | | | | | | | |
| span 6 | | | | | |  | span 6 | | | | | |
|  | span 12 | | | | | | | | | | | |

The grid system is responsive, and the columns will re-arrange automatically depending on the screen size.

Make sure that the sum adds up to 12 or fewer (it is not required that you use all 12 available columns).

## **Grid Classes**

The Bootstrap 4 grid system has five classes:

* .col- (extra small devices - screen width less than 576px)
* .col-sm- (small devices - screen width equal to or greater than 576px)
* .col-md- (medium devices - screen width equal to or greater than 768px)
* .col-lg- (large devices - screen width equal to or greater than 992px)
* .col-xl- (xlarge devices - screen width equal to or greater than 1200px)

The classes above can be combined to create more dynamic and flexible layouts.

**Tip:** Each class scales up, so if you wish to set the same widths for sm and md, you only need to specify sm.

## **Basic Structure of a Bootstrap 4 Grid**

The following is a basic structure of a Bootstrap 4 grid:

<!-- Control the column width, and how they should appear on different devices -->  
<div class="row">  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
</div>  
<div class="row">  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
</div>  
  
<!-- Or let Bootstrap automatically handle the layout -->  
<div class="row">  
  <div class="col"></div>  
  <div class="col"></div>  
  <div class="col"></div>  
</div>

First example: create a row (<div class="row">). Then, add the desired number of columns (tags with appropriate .col-\*-\* classes). The first star (\*) represents the responsiveness: sm, md, lg or xl, while the second star represents a number, which should add up to 12 for each row.

Second example: instead of adding a number to each col, let bootstrap handle the layout, to create equal width columns: two "col" elements = 50% width to each col. three cols = 33.33% width to each col. four cols = 25% width, etc. You can also use .col-sm|md|lg|xl to make the columns responsive.

Below we have collected some examples of basic Bootstrap 4 grid layouts.

## **Three Equal Columns**

.col

.col

.col

The following example shows how to create three equal-width columns, on all devices and screen widths:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container-fluid">

<h1>Three equal width columns</h1>

<p>Note: Try to add a new div with class="col" inside the row class - this will create three equal-width columns.</p>

<div class="row">

<div class="col" style="background-color:lavender;">.col</div>

<div class="col" style="background-color:orange;">.col</div>

<div class="col" style="background-color:lavender;">.col</div>

</div>

</div>

</body>

</html>

## **Responsive Columns**

.col-sm-3

.col-sm-3

.col-sm-3

.col-sm-3

The following example shows how to create four equal-width columns starting at tablets and scaling to extra large desktops. **On mobile phones or screens that are less than 576px wide, the columns will automatically stack on top of each other**:

### **Example**

## <!DOCTYPE html>

## <html lang="en">

## <head>

## <title>Bootstrap Example</title>

## <meta charset="utf-8">

## <meta name="viewport" content="width=device-width, initial-scale=1">

## <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

## <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

## <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

## <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

## </head>

## <body>

## <div class="container-fluid">

## <h1>Responsive Columns</h1>

## <p>Resize the browser window to see the effect.</p>

## <p>The columns will automatically stack on top of each other when the screen is less than 576px wide.</p>

## <div class="row">

## <div class="col-sm-3" style="background-color:lavender;">.col-sm-3</div>

## <div class="col-sm-3" style="background-color:lavenderblush;">.col-sm-3</div>

## <div class="col-sm-3" style="background-color:lavender;">.col-sm-3</div>

## <div class="col-sm-3" style="background-color:lavenderblush;">.col-sm-3</div>

## </div>

## </div>

## </body>

## </html>

## **Two Unequal Responsive Columns**

.col-sm-4

.col-sm-8

The following example shows how to get two various-width columns starting at tablets and scaling to large extra desktops:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container-fluid">

<h1>Two Unequal Responsive Columns</h1>

<p>Resize the browser window to see the effect.</p>

<p>The columns will automatically stack on top of each other when the screen is less than 576px wide.</p>

<div class="row">

<div class="col-sm-4" style="background-color:lavender;">.col-sm-4</div>

<div class="col-sm-8" style="background-color:lavenderblush;">.col-sm-8</div>

</div>

</div>

</body>

</html>

# Bootstrap 4 Text/Typography

## **Bootstrap 4 Default Settings**

Bootstrap 4 uses a default font-size of 16px, and its line-height is 1.5.

The default font-family is "Helvetica Neue", Helvetica, Arial, sans-serif.

In addition, all <p> elements have margin-top: 0 and margin-bottom: 1rem (16px by default).

## **<h1> - <h6>**

Bootstrap 4 styles HTML headings (<h1> to <h6>)  with a bolder font-weight and an increased font-size:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h1>h1 Bootstrap heading (2.5rem = 40px)</h1>

<h2>h2 Bootstrap heading (2rem = 32px)</h2>

<h3>h3 Bootstrap heading (1.75rem = 28px)</h3>

<h4>h4 Bootstrap heading (1.5rem = 24px)</h4>

<h5>h5 Bootstrap heading (1.25rem = 20px)</h5>

<h6>h6 Bootstrap heading (1rem = 16px)</h6>

</div>

</body>

</html>

## **Display Headings**

Display headings are used to stand out more than normal headings (larger font-size and lighter font-weight), and there are four classes to choose from: .display-1, .display-2, .display-3, .display-

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h1>Display Headings</h1>

<p>Display headings are used to stand out more than normal headings (larger font-size and lighter font-weight):</p>

<h1 class="display-1">Display 1</h1>

<h1 class="display-2">Display 2</h1>

<h1 class="display-3">Display 3</h1>

<h1 class="display-4">Display 4</h1>

</div>

</body>

</html>

## **<small>**

In Bootstrap 4 the HTML <small> element is used to create a lighter, secondary text in any heading:

**Example**

<div class="container">

<h1>Lighter, Secondary Text</h1>

<p>The small element is used to create a lighter, secondary text in any heading:</p>

<h1>h1 heading <small>secondary text</small></h1>

<h2>h2 heading <small>secondary text</small></h2>

<h3>h3 heading <small>secondary text</small></h3>

<h4>h4 heading <small>secondary text</small></h4>

<h5>h5 heading <small>secondary text</small></h5>

<h6>h6 heading <small>secondary text</small></h6>

</div>

## **<mark>**

Bootstrap 4 will style the HTML <mark> element with a yellow background color and some padding:

### **Example**

<div class="container">

<h1>Highlight Text</h1>

<p>Use the mark element to <mark>highlight</mark> text.</p>

</div>

## **<abbr>**

Bootstrap 4 will style the HTML <abbr> element with a dotted border bottom:

### **Example**

<div class="container">

<h1>Abbreviations</h1>

<p>The abbr element is used to mark up an abbreviation or acronym:</p>

<p>The <abbr title="World Health Organization">WHO</abbr> was founded in 1948.</p>

</div>

## **<blockquote>**

Add the .blockquote class to a <blockquote> when quoting blocks of content from another source:

### **Example**

<div class="container">

<h1>Blockquotes</h1>

<p>The blockquote element is used to present content from another source:</p>

<blockquote class="blockquote">

<p>For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.</p>

<footer class="blockquote-footer">From WWF's website</footer>

</blockquote>

</div>

## **<dl>**

Bootstrap 4 will style the HTML <dl> element in the following way:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h1>Description Lists</h1>

<p>The dl element indicates a description list:</p>

<dl>

<dt>Coffee</dt>

<dd>- black hot drink</dd>

<dt>Milk</dt>

<dd>- white cold drink</dd>

</dl>

</div>

</body>

</html>

## **<code>**

Bootstrap 4 will style the HTML <code> element in the following way:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h1>Code Snippets</h1>

<p>Inline snippets of code should be embedded in the code element:</p>

<p>The following HTML elements: <code>span</code>, <code>section</code>, and <code>div</code> defines a section in a document.</p>

</div>

</body>

</html>

## **<kbd>**

Bootstrap 4 will style the HTML <kbd> element in the following way:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h1>Keyboard Inputs</h1>

<p>To indicate input that is typically entered via the keyboard, use the kbd element:</p>

<p>Use <kbd>ctrl + p</kbd> to open the Print dialog box.</p>

</div>

</body>

</html>

## **<pre>**

Bootstrap 4 will style the HTML <pre> element in the following way:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h1>Multiple Code Lines</h1>

<p>For multiple lines of code, use the pre element:</p>

<pre>

Text in a pre element

is displayed in a fixed-width

font, and it preserves

both spaces and

line breaks.

</pre>

</div>

</body>

</html>

## **More Typography Classes**

The Bootstrap 4 classes below can be added to style HTML elements further:

|  |  |  |
| --- | --- | --- |
| **Class** | **Description** | **Example** |
| .font-weight-bold | Bold text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_txt_font-weight&stacked=h) |
| .font-weight-bolder | Bolder text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_txt_font-weight&stacked=h) |
| .font-italic | Italic text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_txt_font-weight&stacked=h) |
| .font-weight-light | Light weight text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_txt_font-weight&stacked=h) |
| .font-weight-lighter | Lighter weight text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_txt_font-weight&stacked=h) |
| .font-weight-normal | Normal text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_txt_font-weight&stacked=h) |
| .lead | Makes a paragraph stand out | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_txt_lead&stacked=h) |
| .small | Indicates smaller text (set to 80% of the size of the parent) | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_txt_small&stacked=h) |
| .text-left | Indicates left-aligned text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-\*-left | Indicates left-aligned text on small, medium, large or xlarge screens | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-left-responsive&stacked=h) |
| .text-break | Prevents long text from breaking layout | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-break) |
| .text-center | Indicates center-aligned text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-\*-center | Indicates center-aligned text on small, medium, large or xlarge screens | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-center-responsive&stacked=h) |
| .text-decoration-none | Removes the underline from a link | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_txt_decoration&stacked=h) |
| .text-right | Indicates right-aligned text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-\*-right | Indicates right-aligned text on small, medium, large or xlarge screens | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-right-responsive&stacked=h) |
| .text-justify | Indicates justified text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-monospace | Monospaced text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-monospace&stacked=h) |
| .text-nowrap | Indicates no wrap text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-lowercase | Indicates lowercased text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-lowercase&stacked=h) |
| .text-reset | Resets the color of a text or a link (inherits the color from its parent) | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_txt_reset&stacked=h) |
| .text-uppercase | Indicates uppercased text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-lowercase&stacked=h) |
| .text-capitalize | Indicates capitalized text | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_text-lowercase&stacked=h) |
| .initialism | Displays the text inside an <abbr> element in a slightly smaller font size | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_txt_abbr2&stacked=h) |
| .list-unstyled | Removes the default list-style and left margin on list items (works on both <ul> and <ol>). This class only applies to immediate children list items (to remove the default list-style from any nested lists, apply this class to any nested lists as well) | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_txt_list-unstyled&stacked=h) |
| .list-inline | Places all list items on a single line (used together with .list-inline-item on each <li> elements) | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_txt_list-inline&stacked=h) |
| .pre-scrollable | Makes a <pre> element scrollable | [Try it](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_ref_txt_pre&stacked=h) |

# Bootstrap 4 Colors

## **Text Colors**

Bootstrap 4 has some contextual classes that can be used to provide "meaning through colors".

The classes for text colors are: .text-muted, .text-primary, .text-success, .text-info, .text-warning, .text-danger, .text-secondary, .text-white, .text-dark, .text-body (default body color/often black) and .text-light:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Contextual Backgrounds</h2>

<p>Use the contextual background classes to provide "meaning through colors".</p>

<p>Note that you can also add a .text-\* class if you want a different text color:</p>

<p class="bg-primary text-white">This text is important.</p>

<p class="bg-success text-white">This text indicates success.</p>

<p class="bg-info text-white">This text represents some information.</p>

<p class="bg-warning text-white">This text represents a warning.</p>

<p class="bg-danger text-white">This text represents danger.</p>

<p class="bg-secondary text-white">Secondary background color.</p>

<p class="bg-dark text-white">Dark grey background color.</p>

<p class="bg-light text-dark">Light grey background color.</p>

</div>

</body>

</html>

Contextual text classes can also be used on links, which will add a darker hover color:

### **Example**

### <!DOCTYPE html>

### <html lang="en">

### <head>

### <title>Bootstrap Example</title>

### <meta charset="utf-8">

### <meta name="viewport" content="width=device-width, initial-scale=1">

### <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

### <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

### <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

### <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

### </head>

### <body>

### <div class="container">

### <h2>Contextual Link Colors</h2>

### <p>Hover over the links.</p>

### <a href="#" class="text-muted">Muted link.</a>

### <a href="#" class="text-primary">Primary link.</a>

### <a href="#" class="text-success">Success link.</a>

### <a href="#" class="text-info">Info link.</a>

### <a href="#" class="text-warning">Warning link.</a>

### <a href="#" class="text-danger">Danger link.</a>

### <a href="#" class="text-secondary">Secondary link.</a>

### <a href="#" class="text-dark">Dark grey link.</a>

### <a href="#" class="text-body">Body/black link.</a>

### <a href="#" class="text-light">Light grey link.</a>

### </div>

### </body>

</html>

You can also add 50% opacity for black or white text with the .text-black-50 or .text-white-50 classes:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Opacity Text Colors</h2>

<p>Add 50% opacity for black or white text with the .text-black-50 or .text-white-50 classes:</p>

<p class="text-black-50">Black text with 50% opacity on white background</p>

<p class="text-white-50 bg-dark">White text with 50% opacity on black background</p>

</div>

</body>

</html>

## **Background Colors**

The classes for background colors are: .bg-primary, .bg-success, .bg-info, .bg-warning, .bg-danger, .bg-secondary, .bg-dark and .bg-light.

Note that background colors do not set the text color, so in some cases you'll want to use them together with a .text-\* class.

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Contextual Backgrounds</h2>

<p>Use the contextual background classes to provide "meaning through colors".</p>

<p>Note that you can also add a .text-\* class if you want a different text color:</p>

<p class="bg-primary text-white">This text is important.</p>

<p class="bg-success text-white">This text indicates success.</p>

<p class="bg-info text-white">This text represents some information.</p>

<p class="bg-warning text-white">This text represents a warning.</p>

<p class="bg-danger text-white">This text represents danger.</p>

<p class="bg-secondary text-white">Secondary background color.</p>

<p class="bg-dark text-white">Dark grey background color.</p>

<p class="bg-light text-dark">Light grey background color.</p>

</div>

</body>

</html>

# Bootstrap 4 Tables

## **Bootstrap 4 Basic Table**

A basic Bootstrap 4 table has a light padding and horizontal dividers.

The .table class adds basic styling to a table:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Basic Table</h2>

<p>The .table class adds basic styling (light padding and horizontal dividers) to a table:</p>

<table class="table">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

</body>

</html>

## **Striped Rows**

The .table-striped class adds zebra-stripes to a table:

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Striped Rows</h2>

<p>The .table-striped class adds zebra-stripes to a table:</p>

<table class="table table-striped">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

</body>

</html>

## **Bordered Table**

The .table-bordered class adds borders on all sides of the table and cells

<body>

<div class="container">

<h2>Bordered Table</h2>

<p>The .table-bordered class adds borders on all sides of the table and the cells:</p>

<table class="table table-bordered">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

</body>

## **Hover Rows**

The .table-hover class adds a hover effect (grey background color) on table rows:

<body>

<div class="container">

<h2>Hover Rows</h2>

<p>The .table-hover class enables a hover state (grey background on mouse over) on table rows:</p>

<table class="table table-hover">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

</body>

## **Black/Dark Table**

The .table-dark class adds a black background to the table:

<div class="container">

<h2>Black/Dark Table</h2>

<p>The .table-dark class adds a black background to the table:</p>

<table class="table table-dark">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

## **Dark Striped Table**

Combine .table-dark and .table-striped to create a dark, striped table:

<div class="container">

<h2>Dark Striped Table</h2>

<p>Combine .table-dark and .table-striped to create a dark, striped table:</p>

<table class="table table-dark table-striped">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

## **Hoverable Dark Table**

The .table-hover class adds a hover effect (grey background color) on table rows:

<body>

<div class="container">

<h2>Hoverable Dark Table</h2>

<p>The .table-hover class adds a hover effect (grey background color) on table rows:</p>

<table class="table table-dark table-hover">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

## **Borderless Table**

The .table-borderless class removes borders from the table:

<div class="container">

<h2>Borderless Table</h2>

<p>The .table-borderless class removes borders from the table:</p>

<table class="table table-borderless">

………………………

</table>

</div>

## **Contextual Classes**

Contextual classes can be used to color the whole table (<table>),  the table rows (<tr>) or table cells (<td>).

<div class="container">

<h2>Contextual Classes</h2>

<p>Contextual classes can be used to color the table, table rows or table cells. The classes that can be used are: .table-primary, .table-success, .table-info, .table-warning, .table-danger, .table-active, .table-secondary, .table-light and .table-dark:</p>

<table class="table">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>Default</td>

<td>Defaultson</td>

<td>def@somemail.com</td>

</tr>

<tr class="table-primary">

<td>Primary</td>

<td>Joe</td>

<td>joe@example.com</td>

</tr>

<tr class="table-success">

<td>Success</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr class="table-danger">

<td>Danger</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr class="table-info">

<td>Info</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

<tr class="table-warning">

<td>Warning</td>

<td>Refs</td>

<td>bo@example.com</td>

</tr>

<tr class="table-active">

<td>Active</td>

<td>Activeson</td>

<td>act@example.com</td>

</tr>

<tr class="table-secondary">

<td>Secondary</td>

<td>Secondson</td>

<td>sec@example.com</td>

</tr>

<tr class="table-light">

<td>Light</td>

<td>Angie</td>

<td>angie@example.com</td>

</tr>

<tr class="table-dark text-dark">

<td>Dark</td>

<td>Bo</td>

<td>bo@example.com</td>

</tr>

</tbody>

</table>

</div>

The contextual classes that can be used are:

| **Class** | **Description** |
| --- | --- |
| .table-primary | Blue: Indicates an important action |
| .table-success | Green: Indicates a successful or positive action |
| .table-danger | Red: Indicates a dangerous or potentially negative action |
| .table-info | Light blue: Indicates a neutral informative change or action |
| .table-warning | Orange: Indicates a warning that might need attention |
| .table-active | Grey: Applies the hover color to the table row or table cell |
| .table-secondary | Grey: Indicates a slightly less important action |
| .table-light | Light grey table or table row background |
| .table-dark | Dark grey table or table row background |

## **Table Head Colors**

The .thead-dark class adds a black background to table headers, and the .thead-light class adds a grey background to table headers:

<body>

<div class="container">

<h2>Table Head Colors</h2>

<p>The .thead-dark class adds a black background to table headers, and the .thead-light class adds a grey background to table headers:</p>

<table class="table">

<thead class="thead-dark">

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

<table class="table">

<thead class="thead-light">

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

</body>

## **Small table**

The .table-sm class makes the table smaller by cutting cell padding in half:

<div class="container">

<h2>Small Table</h2>

<p>The .table-sm class makes the table smaller by cutting cell padding in half:</p>

<table class="table table-bordered table-sm">

<thead>

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

</tr>

</thead>

<tbody>

<tr>

<td>John</td>

<td>Doe</td>

<td>john@example.com</td>

</tr>

<tr>

<td>Mary</td>

<td>Moe</td>

<td>mary@example.com</td>

</tr>

<tr>

<td>July</td>

<td>Dooley</td>

<td>july@example.com</td>

</tr>

</tbody>

</table>

</div>

## **Responsive Tables**

The .table-responsive class creates a responsive table: an horizontal scrollbar is added to the table on screens that are less than 992px wide (if needed). When viewing on anything larger than 992px wide, there is no difference:

<div class="container">

<h2>Responsive Table</h2>

<p>The .table-responsive class creates a responsive table which will scroll horizontally on screens that are less than 992px wide (if needed). When viewing on anything larger than 992px, there is no difference:</p>

<div class="table-responsive">

<table class="table table-bordered">

<thead>

<tr>

<th>#</th>

<th>Firstname</th>

<th>Lastname</th>

<th>Age</th>

<th>City</th>

<th>Country</th>

<th>Sex</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

</tr>

</thead>

<tbody>

<tr>

<td>1</td>

<td>Anna</td>

<td>Pitt</td>

<td>35</td>

<td>New York</td>

<td>USA</td>

<td>Female</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

</tr>

</tbody>

</table>

</div>

</div>

You can also decide when the table should get a scrollbar, depending on screen width:

| **Class** | **Screen width** |
| --- | --- |
| .table-responsive-sm | < 576px |
| .table-responsive-md | < 768px |
| .table-responsive-lg | < 992px |
| .table-responsive-xl | < 1200px |

<div class="container">

<h2>Responsive Table</h2>

<p>The .table-responsive-sm class creates a responsive table which will scroll horizontally on screens that are less than 576px wide.</p>

<p>Resize the browser window to see the effect.</p>

<div class="table-responsive-sm">

<table class="table table-bordered">

<thead>

<tr>

<th>#</th>

<th>Firstname</th>

<th>Lastname</th>

<th>Age</th>

<th>City</th>

<th>Country</th>

<th>Sex</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

<th>Example</th>

</tr>

</thead>

<tbody>

<tr>

<td>1</td>

<td>Anna</td>

<td>Pitt</td>

<td>35</td>

<td>New York</td>

<td>USA</td>

<td>Female</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

<td>Yes</td>

</tr>

</tbody>

</table>

</div>

</div>

# Bootstrap 4 Images

## **Bootstrap 4 Image Shapes**

Rounded Corners:



Circle:



Thumbnail:



## **Rounded Corners**

The .rounded class adds rounded corners to an image:

### **Example**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Rounded Corners</h2>

<p>The .rounded class adds rounded corners to an image:</p>

<img src="cinqueterre.jpg" class="rounded" alt="Cinque Terre" width="304" height="236">

</div>

</body>

</html>

## **Circle**

The .rounded-circle class shapes the image to a circle:

<div class="container">

<h2>Circle</h2>

<p>The .rounded-circle class shapes the image to a circle:</p>

<img src="cinqueterre.jpg" class="rounded-circle" alt="Cinque Terre" width="304" height="236">

</div>

## **Thumbnail**

The .img-thumbnail class shapes the image to a thumbnail (bordered):

<div class="container">

<h2>Thumbnail</h2>

<p>The .img-thumbnail class creates a thumbnail of the image:</p>

<img src="cinqueterre.jpg" class="img-thumbnail" alt="Cinque Terre" width="304" height="236">

</div>

## **Aligning Images**

Float an image to the right with the .float-right class or to the left with .float-left:

<div class="container">

<h2>Aligning images</h2>

<p>Use the float classes to float the image to the left or to the right:</p>

<img src="paris.jpg" class="float-left" alt="Paris" width="304" height="236">

<img src="paris.jpg" class="float-right" alt="Paris" width="304" height="236">

</div>

## **Centered Image**

Center an image by adding the utility classes .mx-auto (margin:auto) and .d-block (display:block) to the image:

<body>

<div class="container">

<h2>Centered Image</h2>

<p>Center an image by adding the utility classes .mx-auto (margin:auto) and .d-block (display:block) to the image:</p>

<img src="paris.jpg" class="mx-auto d-block" style="width:50%">

</div>

</body>

## **Responsive Images**

Images come in all sizes. So do screens. Responsive images automatically adjust to fit the size of the screen.

Create responsive images by adding an .img-fluid class to the <img> tag. The image will then scale nicely to the parent element.

The .img-fluid class applies max-width: 100%; and height: auto; to the image:

<body>

<div class="container">

<h2>Image</h2>

<p>The .img-fluid class makes the image scale nicely to the parent element (resize the browser window to see the effect):</p>

<img class="img-fluid" src="img\_chania.jpg" alt="Chania" width="460" height="345">

</div>

</body>

## **Bootstrap 4 Jumbotron**

A jumbotron indicates a big grey box for calling extra attention to some special content or information.

**Tip:** Inside a jumbotron you can put nearly any valid HTML, including other Bootstrap elements/classes.

# Bootstrap Tutorial

Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile-first projects on the web.

Use a <div> element with class .jumbotron to create a jumbotron:

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<div class="jumbotron">

<h1>Bootstrap Tutorial</h1>

<p>Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile-first projects on the web.</p>

</div>

<p>This is some text.</p>

<p>This is another text.</p>

</div>

</body>

</html>

## **Full-width Jumbotron**

If you want a full-width jumbotron without rounded borders, add the .jumbotron-fluid class and a .container or .container-fluid inside of it:

<div class="jumbotron jumbotron-fluid">  
  <div class="container">  
    <h1>Bootstrap Tutorial</h1>  
    <p>Bootstrap is the most popular HTML, CSS...</p>  
  </div>  
</div>

# Bootstrap 4 Alerts

## **Bootstrap 4 Alerts**

Bootstrap 4 provides an easy way to create predefined alert messages:

×**Success!** This alert box indicates a successful or positive action.

×**Info!** This alert box indicates a neutral informative change or action.

×**Warning!** This alert box indicates a warning that might need attention.

×**Danger!** This alert box indicates a dangerous or potentially negative action.

×**Primary!** This alert box indicates an important action.

×**Secondary!** This alert box indicates a less important action.

×**Dark!** Dark grey alert box.

×**Light!** Light grey alert box.

Alerts are created with the .alert class, followed by one of the contextual classes .alert-success, .alert-info, .alert-warning, .alert-danger, .alert-primary, .alert-secondary, .alert-light or .alert-dark:

### **Example**

<div class="alert alert-success">  
  <strong>Success!</strong> Indicates a successful or positive action.  
</div>

# Bootstrap 4 Buttons

## **Button Styles**

Bootstrap 4 provides different styles of buttons:

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bootstrap Example</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Button Styles</h2>

<button type="button" class="btn">Basic</button>

<button type="button" class="btn btn-primary">Primary</button>

<button type="button" class="btn btn-secondary">Secondary</button>

<button type="button" class="btn btn-success">Success</button>

<button type="button" class="btn btn-info">Info</button>

<button type="button" class="btn btn-warning">Warning</button>

<button type="button" class="btn btn-danger">Danger</button>

<button type="button" class="btn btn-dark">Dark</button>

<button type="button" class="btn btn-light">Light</button>

<button type="button" class="btn btn-link">Link</button>

</div>

</body>

</html>

The button classes can be used on <a>, <button>, or <input> elements:

<a href="#" class="btn btn-info" role="button">Link Button</a>  
<button type="button" class="btn btn-info">Button</button>  
<input type="button" class="btn btn-info" value="Input Button">  
<input type="submit" class="btn btn-info" value="Submit Button">

## **Button Outline**

Bootstrap 4 provides eight outline/bordered buttons:

<div class="container">

<h2>Button Outline</h2>

<button type="button" class="btn btn-outline-primary">Primary</button>

<button type="button" class="btn btn-outline-secondary">Secondary</button>

<button type="button" class="btn btn-outline-success">Success</button>

<button type="button" class="btn btn-outline-info">Info</button>

<button type="button" class="btn btn-outline-warning">Warning</button>

<button type="button" class="btn btn-outline-danger">Danger</button>

<button type="button" class="btn btn-outline-dark">Dark</button>

<button type="button" class="btn btn-outline-light text-dark">Light</button>

</div>

## **Button Sizes**

Use the .btn-lg class for large buttons or .btn-sm class for small buttons:

<button type="button" class="btn btn-primary btn-lg">Large</button>  
<button type="button" class="btn btn-primary">Default</button>  
<button type="button" class="btn btn-primary btn-sm">Small</button>

## **Block Level Buttons**

Add class .btn-block to create a block level button that spans the entire width of the parent element.

<button type="button" class="btn btn-primary btn-block">Full-Width Button</button>

## **Active/Disabled Buttons**

A button can be set to an active (appear pressed) or a disabled (unclickable) state:

Active Primary Disabled Primary

The class .active makes a button appear pressed, and the disabled attribute makes a button unclickable. Note that <a> elements do not support the disabled attribute and must therefore use the .disabled class to make it visually appear disabled.

### **Example**

<button type="button" class="btn btn-primary active">Active Primary</button>  
<button type="button" class="btn btn-primary" disabled>Disabled Primary</button>  
<a href="#" class="btn btn-primary disabled">Disabled Link</a>

## **Spinner Buttons**

<button class="btn btn-primary">  
  <span class="spinner-border spinner-border-sm"></span>  
</button>  
  
<button class="btn btn-primary">  
  <span class="spinner-border spinner-border-sm"></span>  
  Loading..  
</button>  
  
<button class="btn btn-primary" disabled>  
  <span class="spinner-border spinner-border-sm"></span>  
  Loading..  
</button>  
  
<button class="btn btn-primary" disabled>  
  <span class="spinner-grow spinner-grow-sm"></span>  
  Loading..  
</button>

# Bootstrap 4 Button Groups

## **Button Groups**

Bootstrap 4 allows you to group a series of buttons together (on a single line) in a button group:

AppleSamsungSony

Use a <div> element with class .btn-group to create a button group:

### **Example**

<div class="btn-group">  
  <button type="button" class="btn btn-primary">Apple</button>  
  <button type="button" class="btn btn-primary">Samsung</button>  
  <button type="button" class="btn btn-primary">Sony</button>  
</div>

**Tip:** Instead of applying button sizes to every button in a group, use class .btn-group-lg for a large button group or the .btn-group-sm for a small button group:

#### **Large Buttons:**

AppleSamsungSony

#### **Default Buttons:**

AppleSamsungSony

#### **Small Buttons:**

AppleSamsungSony

### **Example**

<div class="btn-group btn-group-lg">  
  <button type="button" class="btn btn-primary">Apple</button>  
  <button type="button" class="btn btn-primary">Samsung</button>  
  <button type="button" class="btn btn-primary">Sony</button>  
</div>

## **Vertical Button Groups**

Bootstrap 4 also supports vertical button groups:

AppleSamsungSony

Use the class .btn-group-vertical to create a vertical button group:

### **Example**

<div class="btn-group-vertical">  
  <button type="button" class="btn btn-primary">Apple</button>  
  <button type="button" class="btn btn-primary">Samsung</button>  
  <button type="button" class="btn btn-primary">Sony</button>  
</div>

## **Nesting Button Groups & Dropdown Menus**

AppleSamsung

Sony

Nest button groups to create dropdown menus (you will learn more about dropdowns in a later chapter):

### **Example**

<div class="btn-group">  
  <button type="button" class="btn btn-primary">Apple</button>  
  <button type="button" class="btn btn-primary">Samsung</button>  
  <div class="btn-group">  
    <button type="button" class="btn btn-primary dropdown-toggle" data-toggle="dropdown">  
       Sony  
    </button>  
    <div class="dropdown-menu">  
      <a class="dropdown-item" href="#">Tablet</a>  
      <a class="dropdown-item" href="#">Smartphone</a>  
    </div>  
  </div>  
</div>

## **Split Button Dropdowns**

Sony

### **Example**

<div class="btn-group">  
  <button type="button" class="btn btn-primary">Sony</button>  
  <button type="button" class="btn btn-primary dropdown-toggle dropdown-toggle-split" data-toggle="dropdown">  
    <span class="caret"></span>  
  </button>  
  <div class="dropdown-menu">  
    <a class="dropdown-item" href="#">Tablet</a>  
    <a class="dropdown-item" href="#">Smartphone</a>  
  </div>  
</div>

## **Vertical Button Group w/ Dropdown**

AppleSamsung

Sony

### **Example**

<div class="btn-group-vertical">  
  <button type="button" class="btn btn-primary">Apple</button>  
  <button type="button" class="btn btn-primary">Samsung</button>  
  <div class="btn-group">  
    <button type="button" class="btn btn-primary dropdown-toggle" data-toggle="dropdown">  
       Sony  
    </button>  
    <div class="dropdown-menu">  
      <a class="dropdown-item" href="#">Tablet</a>  
      <a class="dropdown-item" href="#">Smartphone</a>  
    </div>  
  </div>  
</div>

## **Button Groups Side by Side**

Button groups are "inline" by default, which makes them appear side by side when you have multiple groups:

AppleSamsungSony

BMWMercedesVolvo

### **Example**

<div class="btn-group">  
  <button type="button" class="btn btn-primary">Apple</button>  
  <button type="button" class="btn btn-primary">Samsung</button>  
  <button type="button" class="btn btn-primary">Sony</button>  
</div>  
  
<div class="btn-group">  
  <button type="button" class="btn btn-primary">BMW</button>  
  <button type="button" class="btn btn-primary">Mercedes</button>  
  <button type="button" class="btn btn-primary">Volvo</button>  
</div>

# Bootstrap 4 Badges

# Example heading New

## **Example heading**New

### **Example heading**New

#### **Example heading**New

##### **Example heading**New

###### **Example heading**New

Badges are used to add additional information to any content. Use the .badge class together with a contextual class (like .badge-secondary) within <span> elements to create rectangular badges. Note that badges scale to match the size of the parent element (if any):

### **Example**

<h1>Example heading <span class="badge badge-secondary">New</span></h1>  
<h2>Example heading <span class="badge badge-secondary">New</span></h2>  
<h3>Example heading <span class="badge badge-secondary">New</span></h3>  
<h4>Example heading <span class="badge badge-secondary">New</span></h4>  
<h5>Example heading <span class="badge badge-secondary">New</span></h5>  
<h6>Example heading <span class="badge badge-secondary">New</span></h6>

## **Contextual Badges**

**Primary** **Secondary** **Success** **Danger** **Warning** **Info** **Light** **Dark**

Use any of the contextual classes (.badge-\*) to change the color of a badge:

### **Example**

<span class="badge badge-primary">Primary</span>  
<span class="badge badge-secondary">Secondary</span>  
<span class="badge badge-success">Success</span>  
<span class="badge badge-danger">Danger</span>  
<span class="badge badge-warning">Warning</span>  
<span class="badge badge-info">Info</span>  
<span class="badge badge-light">Light</span>  
<span class="badge badge-dark">Dark</span>

## **Pill Badges**

**Primary** **Secondary** **Success** **Danger** **Warning** **Info** **Light** **Dark**

Use the .badge-pill class to make the badges more round:

### **Example**

<span class="badge badge-pill badge-primary">Primary</span>  
<span class="badge badge-pill badge-secondary">Secondary</span>  
<span class="badge badge-pill badge-success">Success</span>  
<span class="badge badge-pill badge-danger">Danger</span>  
<span class="badge badge-pill badge-warning">Warning</span>  
<span class="badge badge-pill badge-info">Info</span>  
<span class="badge badge-pill badge-light">Light</span>  
<span class="badge badge-pill badge-dark">Dark</span>

## **Badge inside an Element**

An example of using a badge inside a button:

Messages **4**

### **Example**

<button type="button" class="btn btn-primary">  
  Messages <span class="badge badge-light">4</span>  
</button>

# Bootstrap 4 Progress Bars

## **Basic Progress Bar**

A progress bar can be used to show a user how far along he/she is in a process.

25% Complete

50% Complete

100% Complete

To create a default progress bar, add a .progress class to a container element and add the .progress-bar class to its child element. Use the CSS width property to set the width of the progress bar:

### **Example**

<div class="progress">  
  <div class="progress-bar" style="width:70%"></div>  
</div>

## **Progress Bar Height**

The height of the progress bar is 16px by default. Use the CSS height property to change it. Note that you must set the same height for the progress container and the progress bar:

### **Example**

<div class="progress" style="height:20px">  
  <div class="progress-bar" style="width:40%;height:20px"></div>  
</div>

## **Progress Bar Labels**

Add text inside the progress bar to show the visible percentage:

70%

### **Example**

<div class="progress">  
  <div class="progress-bar" style="width:70%">70%</div>  
</div>

## **Colored Progress Bars**

By default, the progress bar is blue (primary). Use any of the Bootstrap 4 contextual background classes to its color:

### **Example**

<!-- Blue -->  
<div class="progress">  
  <div class="progress-bar" style="width:10%"></div>  
</div>  
  
<!-- Green -->  
<div class="progress">  
  <div class="progress-bar bg-success" style="width:20%"></div>  
</div>  
  
<!-- Turquoise -->  
<div class="progress">  
  <div class="progress-bar bg-info" style="width:30%"></div>  
</div>  
  
<!-- Orange -->  
<div class="progress">  
   <div class="progress-bar bg-warning" style="width:40%"></div>  
</div>  
  
<!-- Red -->  
<div class="progress">  
  <div class="progress-bar bg-danger" style="width:50%"></div>  
</div>  
  
<!-- White -->  
<div class="progress border">  
  <div class="progress-bar bg-white" style="width:60%"></div>  
</div>  
  
<!-- Grey -->  
<div class="progress">  
  <div class="progress-bar bg-secondary" style="width:70%"></div>  
</div>  
  
<!-- Light Grey -->  
<div class="progress border">  
  <div class="progress-bar bg-light" style="width:80%"></div>  
</div>  
  
<!-- Dark Grey -->  
<div class="progress">  
  <div class="progress-bar bg-dark" style="width:90%"></div>  
</div>

## **Striped Progress Bars**

Use the .progress-bar-striped class to add stripes to the progress bars:

### **Example**

# <div class="progress">   <div class="progress-bar progress-bar-striped" style="width:40%"></div> </div>

## **Animated Progress Bar**

Add the .progress-bar-animated class to animate the progress bar:

### **Example**

<div class="progress-bar progress-bar-striped progress-bar-animated" style="width:40%"></div>

[Try it Yourself »](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_progressbar5&stacked=h)

## **Multiple Progress Bars**

Progress bars can also be stacked:

Free Space

Warning

Danger

### **Example**

<div class="progress">  
  <div class="progress-bar bg-success" style="width:40%">  
    Free Space  
  </div>  
  <div class="progress-bar bg-warning" style="width:10%">  
    Warning  
  </div>  
  <div class="progress-bar bg-danger" style="width:20%">  
    Danger  
  </div>  
</div>

## **Spinners**

To create a spinner/loader, use the .spinner-border class:

Loading..

<!DOCTYPE html>

<html>

<head>

<title>Bootstrap Example</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Spinners</h2>

<p>To create a spinner/loader, use the <code>.spinner-border</code> class:</p>

<div class="spinner-border"></div>

</div>

</body>

</html>

## **Colored Spinners**

Use any **text color utilites** to add a color to the spinner:

<!DOCTYPE html>

<html>

<head>

<title>Bootstrap Example</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Colored Spinners</h2>

<p>Use any <strong>text color utilites</strong> to add a color to the spinner:</p>

<div class="spinner-border text-muted"></div>

<div class="spinner-border text-primary"></div>

<div class="spinner-border text-success"></div>

<div class="spinner-border text-info"></div>

<div class="spinner-border text-warning"></div>

<div class="spinner-border text-danger"></div>

<div class="spinner-border text-secondary"></div>

<div class="spinner-border text-dark"></div>

<div class="spinner-border text-light"></div>

</div>

</body>

</html>

## **Growing Spinners**

Use the .spinner-grow class if you want the spinner/loader to grow instead of "spin":

<!DOCTYPE html>

<html>

<head>

<title>Bootstrap Example</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Growing Spinners</h2>

<p>Use the <code>.spinner-grow</code> class if you want the spinner/loader to grow instead of "spin":</p>

<div class="spinner-grow text-muted"></div>

<div class="spinner-grow text-primary"></div>

<div class="spinner-grow text-success"></div>

<div class="spinner-grow text-info"></div>

<div class="spinner-grow text-warning"></div>

<div class="spinner-grow text-danger"></div>

<div class="spinner-grow text-secondary"></div>

<div class="spinner-grow text-dark"></div>

<div class="spinner-grow text-light"></div>

</div>

</body>

</html>

## **Spinner Size**

Use .spinner-border-sm or .spinner-grow-sm to create a smaller spinner:

<!DOCTYPE html>

<html>

<head>

<title>Bootstrap Example</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Spinner Size</h2>

<p>Use <code>.spinner-border-sm</code> or <code>.spinner-grow-sm</code> to create a smaller spinner:</p>

<div class="spinner-border spinner-border-sm"></div>

<div class="spinner-grow spinner-grow-sm"></div>

</div>

</body>

</html>

## **Spinner Buttons**

You can also add spinners to a button, with or without text:

<button class="btn btn-primary">  
  <span class="spinner-border spinner-border-sm"></span>  
</button>  
  
<button class="btn btn-primary">  
  <span class="spinner-border spinner-border-sm"></span>  
  Loading..  
</button>  
  
<button class="btn btn-primary" disabled>  
  <span class="spinner-border spinner-border-sm"></span>  
  Loading..  
</button>  
  
<button class="btn btn-primary" disabled>  
  <span class="spinner-grow spinner-grow-sm"></span>  
  Loading..  
</button>